



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
	10/088,650	03/20/2002	Katsuhiko Hiramatsu	L9289.02147	2769
	24257 7	590 11/03/2004		EXAMINER	
	STEVENS DAVIS MILLER & MOSHER, LLP			CHO, UN C	
	1615 L STREET, NW SUITE 850 WASHINGTON, DC 20036			ART UNIT	PAPER NUMBER
			2687	5	
				DATE MAILED: 11/03/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.



			_		
	Application No.	Applicant(s)			
	10/088,650	HIRAMATSU ET AL.	O		
Office Action Summary	Examiner	Art Unit			
	Un C Cho	2687			
The MAILING DATE of this communication ap Period for Reply	opears on the cover sheet with	the correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPITHE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a re - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the mailine earned patent term adjustment. See 37 CFR 1.704(b).	. 136(a). In no event, however, may a rep ply within the statutory minimum of thirty (d will apply and will expire SIX (6) MONTHE, cause the application to become ABAI	ly be timely filed 30) days will be considered timely. IS from the mailing date of this communication NDONED (35 U.S.C. § 133).	ation.		
Status					
1) Responsive to communication(s) filed on					
	is action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4) ☐ Claim(s) 1-5 is/are pending in the application 4a) Of the above claim(s) is/are withdra 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-5 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/	awn from consideration.				
Application Papers					
9)☐ The specification is objected to by the Examin 10)☒ The drawing(s) filed on 20 March 2002 is/are: Applicant may not request that any objection to the Replacement drawing sheet(s) including the correctable. The oath or declaration is objected to by the Examination.	a) accepted or b) object e drawing(s) be held in abeyance ction is required if the drawing(s)	e. See 37 CFR 1.85(a). is objected to. See 37 CFR 1.12			
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
	·				
Attachment(s)		(070 440)			
1) Motice of References Cited (PTO-892) 2) Motice of Draftsperson's Patent Drawing Review (PTO-948)	4)	nmary (PTO-413) Mail Date			
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date 3/20/2002.		rmal Patent Application (PTO-152)			

Art Unit: 2687

DETAILED ACTION

Drawings

1. Figures 1 and 2 should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). Corrected drawings in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.121(d)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 1 5 are rejected under 35 U.S.C. 102(b) as being anticipated by Smith (US 5,642,355).

Regarding claim 1, Smith discloses a base station apparatus comprising delay time measuring means (timing advance control logic) for measuring propagation delay time (distance of the mobile station with respect to the base

Art Unit: 2687

station) of a radio channel and channel assigning means (timeslot allocation) for carrying out channel retrieval in an order based on the propagation delay time measured by said delay time measuring means (timing advance control logic) when carrying out channel assignment (timeslot allocation) (Col. 1, lines 38 – 45 and Col. 3, lines 29 – 59).

Regarding claim 2, Smith discloses that the channel assigning means (timeslot allocation) refers to a table (timeslot group, Fig. 5) that indicates a range of propagation delay time assigned to each slot (real and virtual distance of mobile station with respect to the base station) and carries out the channel retrieval (timeslot allocation) from a slot in which the measured propagation delay time (range of distance) is within said range (Col. 6, line 48 through Col. 7, line 24).

Regarding claim 3, Smith discloses a communication terminal apparatus that carries out radio communication with the base station apparatus comprising transmitting means for transmitting signals via a channel of the uplink assigned by said base station apparatus and receiving means for receiving signals via a channel of an assigned downlink (it is inherent that after a channel is allocated (timeslot allocation) to a mobile station, the mobile station will use that particular channel to communicate with the base station) (Col. 2, lines 49 – 55).

Regarding claim 4, the claim is interpreted and rejected for the same reason as set forth in claim 1.

Application/Control Number: 10/088,650

Art Unit: 2687

Regarding claim 5, the claim is interpreted and rejected for the same reason as set forth in claim 2.

Conclusion

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Sarkioja et al. (US 5,774,808) discloses a method for allocating radio channels in a cellular communication system, each cell having at least one base station communicating with the subscriber terminal equipment by means of a traffic channel specific for each connection.

Parantainen et al. (US 6,242,881) discloses a dynamic channel allocation method based on monitoring of signal levels.

Benveniste (US 5,956,643) discloses a channel assignment system assigning channels to various cells by the optimal partitioning of the available radio frequencies into non-overlapping sets.

Oksala (US 6,477,151) discloses a method of synchronizing radio signal transmission slots at a mobile station to radio signal reception slots at a base station subsystem to account for a propagation delay between the mobile station and the base station subsystem.

Keskitalo et al. (US 6,128,486) discloses a base station receiver and a reception method in a CDMA cellular radio system including at least one base station communicating with a plurality of mobile station situated within its area.

Application/Control Number: 10/088,650

Art Unit: 2687

Ishikawa et al. (US 5,666,655) discloses a mobile communication system using an autonomous distributed type dynamic channel allocation scheme.

Olds et al. (US 5,732,351) discloses that the channel is assigned using a cost function, which includes a distance factor and an isolation factor.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Un C Cho whose telephone number is (703) 305-8725. The examiner can normally be reached on M ~ F 8:00AM to 4:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lester Kincaid can be reached on (703) 306-3016. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Un C Cho /º/25/º4 //c Examiner Art Unit 2687

LESTER G. KINCAID
PRIMARY EXAMINER

Page 5